



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1210509  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1210509

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

Home Office P.O. Box 32 Russell, KS 67665

No. 158

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-9-14	27	22	14	Stafford	KS		9:00PM

Location Radium S to 19 HWY 3E 3 1/2 S

Lease <u>Staub</u>	Well No. <u>#1</u>	Owner <u>W inter</u>
Contractor <u>Royal #2</u>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job <u>Surface</u>		Charge To <u>Charter Energy</u>
Hole Size <u>12 1/4</u>	T.D. <u>295'</u>	Street
Csg. <u>8 5/8</u>	Depth <u>295'</u>	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <u>225 6 1/4 3% CC 1% Gel</u>

Meas Line	Displace	Common
		<u>135</u>
<b>EQUIPMENT</b>		
Pumptrk <u>5</u> No. <u>Cementor</u>	<u>David</u>	Poz. Mix <u>90</u>
Bulktrk <u>1</u> No. <u>Driver</u>	<u>Lonnie M</u>	Gel. <u>5</u>
Bulktrk <u>Pu</u> No. <u>Driver</u>	<u>Brett</u>	Calcium <u>8</u>

JOB SERVICES & REMARKS	Hulls
Remarks:	Salt
Rat Hole	Flowseal <u>50#</u>
Mouse Hole	Kol-Seal
Centralizers	Mud CLR 48
Baskets	CFL-117 or CD110 CAF 38
D/V or Port Collar	Sand
	Handling <u>238</u>
	Mileage <u>8 5/8</u>

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Wood Plug - 1	
Pumptrk Charge <u>Surface</u>	
Mileage <u>23</u>	

Cement

Circulated!!

Signature [Handwritten Signature]

Tax	
Discount	
Total Charge	





CHARGE TO: **CHARTER ENERGY**  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET **26255**  
 PAGE 1 OF 2

SERVICE LOCATIONS:  
 1. **Ness City, KS.**  
 2.  
 3.  
 4. REFERRAL LOCATION

WELL/PROJECT NO. **STAUB #1**  
 LEASE **STAUB #1**  
 COUNTY/PARISH **STAFFORD**  
 STATE **KS**  
 CITY **Radium, KS**  
 DATE **17 APRIL**  
 OWNER

TICKET TYPE  SERVICE  SALES  
 CONTRACTOR **Royal Drilling Rig #2**  
 RIG NAME/NO.  
 ORDER NO.

WELL TYPE **OIL**  
 WELL CATEGORY **DEVELOPMENT**  
 JOB PURPOSE **52 LONGSTRING**  
 WELLS PERMIT NO.  
 WELL LOCATION **3E, 33S, W1510**

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT								
575				MILEAGE #115	70	MIL				6.00	420.00
578				PUMP CHARGE	1	JOB				1500.00	1500.00
402				CEMENT BASKETS	1	EA				700.00	700.00
403				CEMENT BASKETS	1	EA				300.00	300.00
406				LATEX DRAIN PILED BARREL	1	EA				275.00	275.00
407				ROBERT FLOAT SHADE W/FILL	1	EA				375.00	375.00
281				MUD FLUSH	500	GAZ				1.20	600.00
221				KEL	2	GAZ				25.00	50.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY**, and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

DATE SIGNED **17 APR 14** TIME SIGNED **1400**  A.M.  P.M.

REMIT PAYMENT TO:  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UN-DECIDED	DIS-AGREE
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL **1** 4245.00  
 SUBTOTAL **2** 5047.00  
 TAX **5.40** 456.28  
 TOTAL **7.15** 9748.28

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR **Paul J. Probst** APPROVAL

Thank You!





PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

CUSTOMER  
CHARTER ENERGY

WELL  
STAUB # 1

TICKET No. 26255  
DATE 17 APR 14  
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M		
2776						FLOOCE	50	lbs			2.50	125.00
283						SALT	900	lbs			.20	180.00
284						CAUSEAL	8	sq			35.00	280.00
286						HALAD-1	100	lbs			8.50	850.00
290						D-AIR	2	gal			42.00	84.00
325						STANDARD EA-2	175	sq			14.50	2537.50
581						SERVICE CHARGE					2.00	350.00
583						MILEAGE CHARGE					7.00	640.50
							TOTAL MILEAGE CHARGE					
							LOADED MILES					
							CUBIC FEET					
							TON MILES					
CONTINUATION TOTAL												5047.00



**JOB LOG**

**SWIFT Services, Inc.**

DATE: 17 APR 14 PAGE NO.

CUSTOMER: CHARTER ENERGY WELL NO. LEASE: STAUB #1 JOB TYPE: 5 1/2 LONGSTRING TICKET NO. 26255

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							ON LOCATION
	1005							START PIPE 5 1/2 - 15.5 # RTD @ 3975 SHOEJT. 21.19 CENTRALIZERS 1,2,3,4,6,8,10,12,14,16 BASKET 5
	1135							DROP BALL CIRCULATE
	1210	6	12			400		Pump 500 gal mud FLUSH
		6	20			400		Pump 20 Bar KCL SPACER
	1217		7.5					PLUG RH 30SX, MH 20SX
		4	30					MIX 125 SX EA-2
	1247							WASH OUT Pump & LINES.
	1250	6						START DISPLACING PLUG.
	1306	Ø	94			1500		PLUG DOWN LATCH PLUG IN
	1308							RELEASE PSI - DRY
	1310							WASH TRUCK
	1345							JOB COMPLETE
								THANKS #115
								JASON DAVE JUAN



## DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc.**

PO Box 252  
Great Bend, KS 67530

ATTN: Kurt Talbott

### **Staub #1**

#### **27-22s-14w Stafford,KS**

Start Date: 2014.04.14 @ 00:56:38

End Date: 2014.04.14 @ 07:55:53

Job Ticket #: 52004                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.04.19 @ 11:50:06



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Charter Energy, Inc.  
 PO Box 252  
 Great Bend, KS 67530  
 ATTN: Kurt Talbott

**27-22s-14w Stafford, KS**

**Staub #1**

Job Ticket: 52004      **DST#: 1**  
 Test Start: 2014.04.14 @ 00:56:38

## GENERAL INFORMATION:

Formation: **LKC "H"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:04:53  
 Time Test Ended: 07:55:53  
 Interval: **3598.00 ft (KB) To 3625.00 ft (KB) (TVD)**  
 Total Depth: 3625.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Matt Smith  
 Unit No: #53  
 Reference Elevations: 1947.00 ft (KB)  
 1940.00 ft (CF)  
 KB to GR/CF: 7.00 ft

## Serial #: 6773

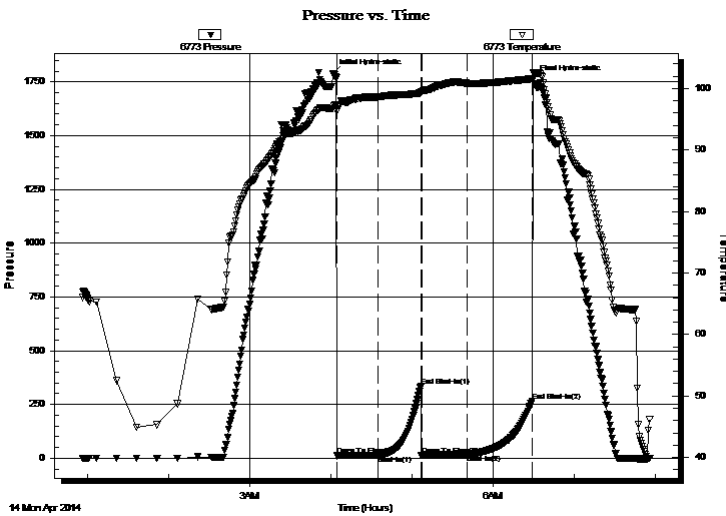
**Outside**

Press@RunDepth: 16.76 psig @ 3599.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.04.14      End Date: 2014.04.14      Last Calib.: 2014.04.14  
 Start Time: 00:56:43      End Time: 07:55:52      Time On Btm: 2014.04.14 @ 04:01:53  
 Time Off Btm: 2014.04.14 @ 06:29:38

TEST COMMENT: IF: Weak blow . Surf., to 1".  
 IS: No blow .  
 FF: No blow .  
 FS: No blow .

## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1786.95	96.70	Initial Hydro-static
3	11.59	96.20	Open To Flow (1)
34	13.65	98.62	Shut-In(1)
65	336.23	99.25	End Shut-In(1)
66	14.64	99.45	Open To Flow (2)
100	16.76	100.85	Shut-In(2)
147	265.00	101.59	End Shut-In(2)
148	1761.09	102.62	Final Hydro-static



## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drig Mud 100%m	0.14

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Charter Energy, Inc.  
PO Box 252  
Great Bend, KS 67530  
ATTN: Kurt Talbott

**27-22s-14w Stafford,KS**  
**Staub #1**  
Job Ticket: 52004      **DST#: 1**  
Test Start: 2014.04.14 @ 00:56:38

**Tool Information**

Drill Pipe:	Length: 3599.00 ft	Diameter: 3.80 inches	Volume: 50.48 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume: 50.48 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3598.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	47.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3579.00	
Shut In Tool	5.00			3584.00	
Hydraulic tool	5.00			3589.00	
Packer	4.00			3593.00	20.00      Bottom Of Top Packer
Packer	5.00			3598.00	
Stubb	1.00			3599.00	
Recorder	0.00	6719	Outside	3599.00	
Recorder	0.00	6773	Outside	3599.00	
Perforations	23.00			3622.00	
Bullnose	3.00			3625.00	27.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>47.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Charter Energy, Inc.  
PO Box 252  
Great Bend, KS 67530  
ATTN: Kurt Talbott

**27-22s-14w Stafford,KS**  
**Staub #1**  
Job Ticket: 52004      **DST#: 1**  
Test Start: 2014.04.14 @ 00:56:38

### Mud and Cushion Information

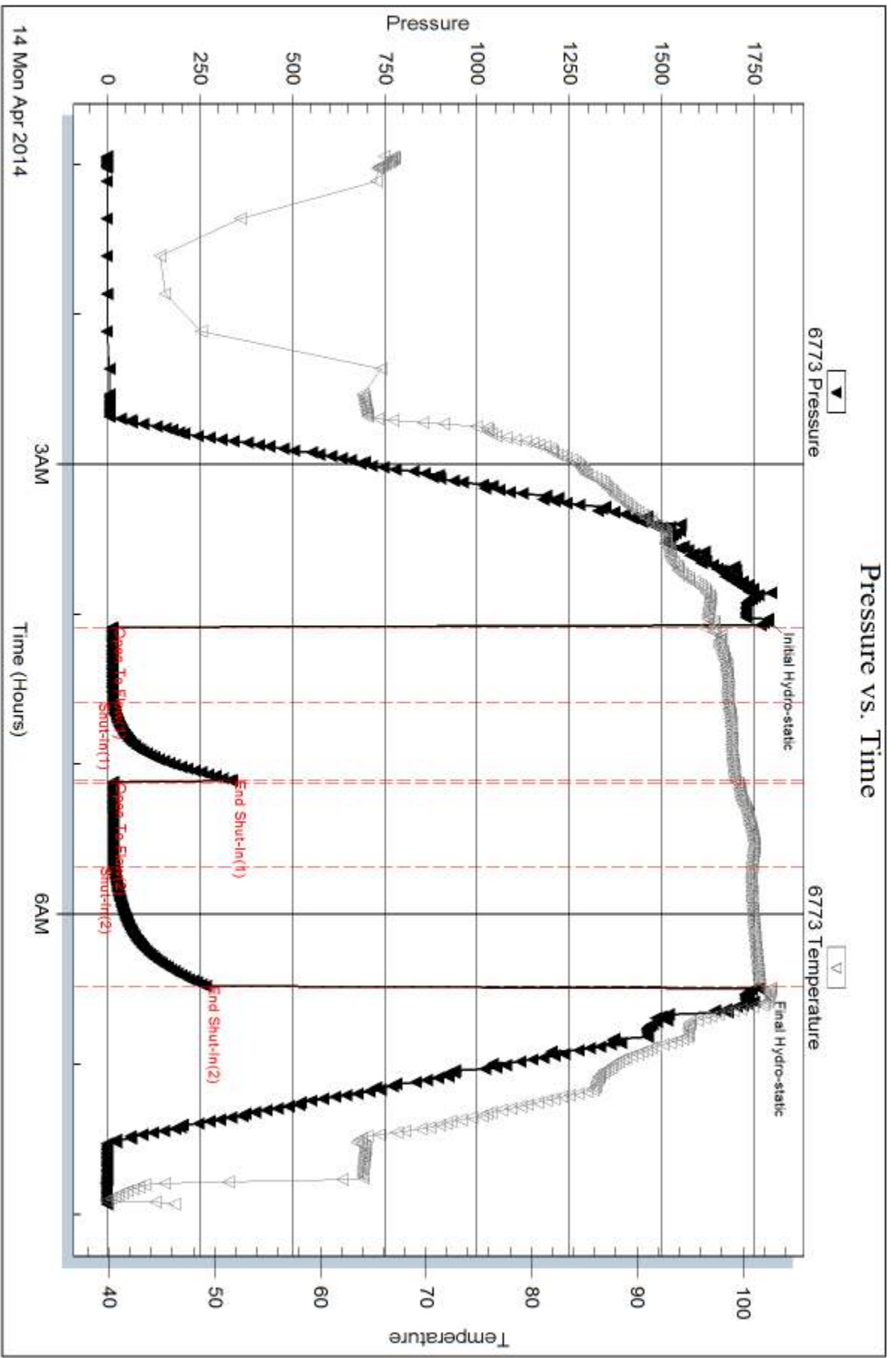
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	7200 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.17 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 7200.00 ppm			
Filter Cake: 0.20 inches			

### Recovery Information

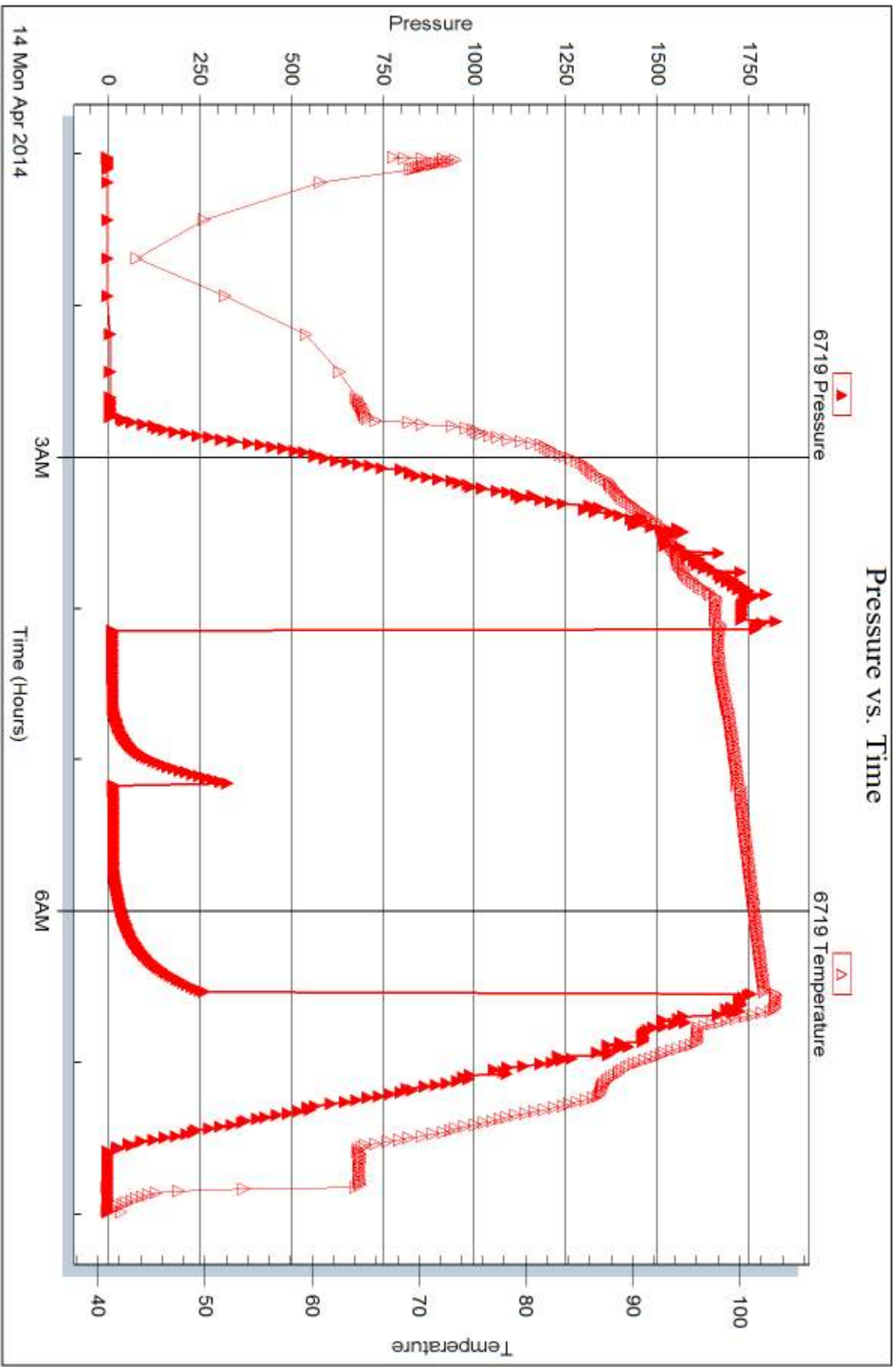
Recovery Table

Length ft	Description	Volume bbl
10.00	Drig Mud 100%m	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
Laboratory Name:      Laboratory Location:  
Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc.**

PO Box 252  
Great Bend, KS 67530

ATTN: Kurt Talbott

### **Staub #1**

#### **27-22s-14w Stafford,KS**

Start Date: 2014.04.14 @ 15:29:28

End Date: 2014.04.14 @ 20:15:28

Job Ticket #: 52005                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.04.19 @ 11:49:41











**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Charter Energy, Inc.

**27-22s-14w Stafford,KS**

PO Box 252  
Great Bend, KS 67530

**Staub #1**

Job Ticket: 52005

**DST#: 2**

ATTN: Kurt Talbott

Test Start: 2014.04.14 @ 15:29:28

## Tool Information

Drill Pipe:	Length: 3632.00 ft	Diameter: 3.80 inches	Volume: 50.95 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 50.95 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3630.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	15.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3611.00	
Shut In Tool	5.00			3616.00	
Hydraulic tool	5.00			3621.00	
Packer	4.00			3625.00	20.00 Bottom Of Top Packer
Packer	5.00			3630.00	
Stubb	1.00			3631.00	
Recorder	0.00	6719	Outside	3631.00	
Recorder	0.00	6773	Outside	3631.00	
Perforations	11.00			3642.00	
Bullnose	3.00			3645.00	15.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>35.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Charter Energy, Inc.  
PO Box 252  
Great Bend, KS 67530  
ATTN: Kurt Talbott

**27-22s-14w Stafford,KS**  
**Staub #1**  
Job Ticket: 52005      **DST#: 2**  
Test Start: 2014.04.14 @ 15:29:28

### Mud and Cushion Information

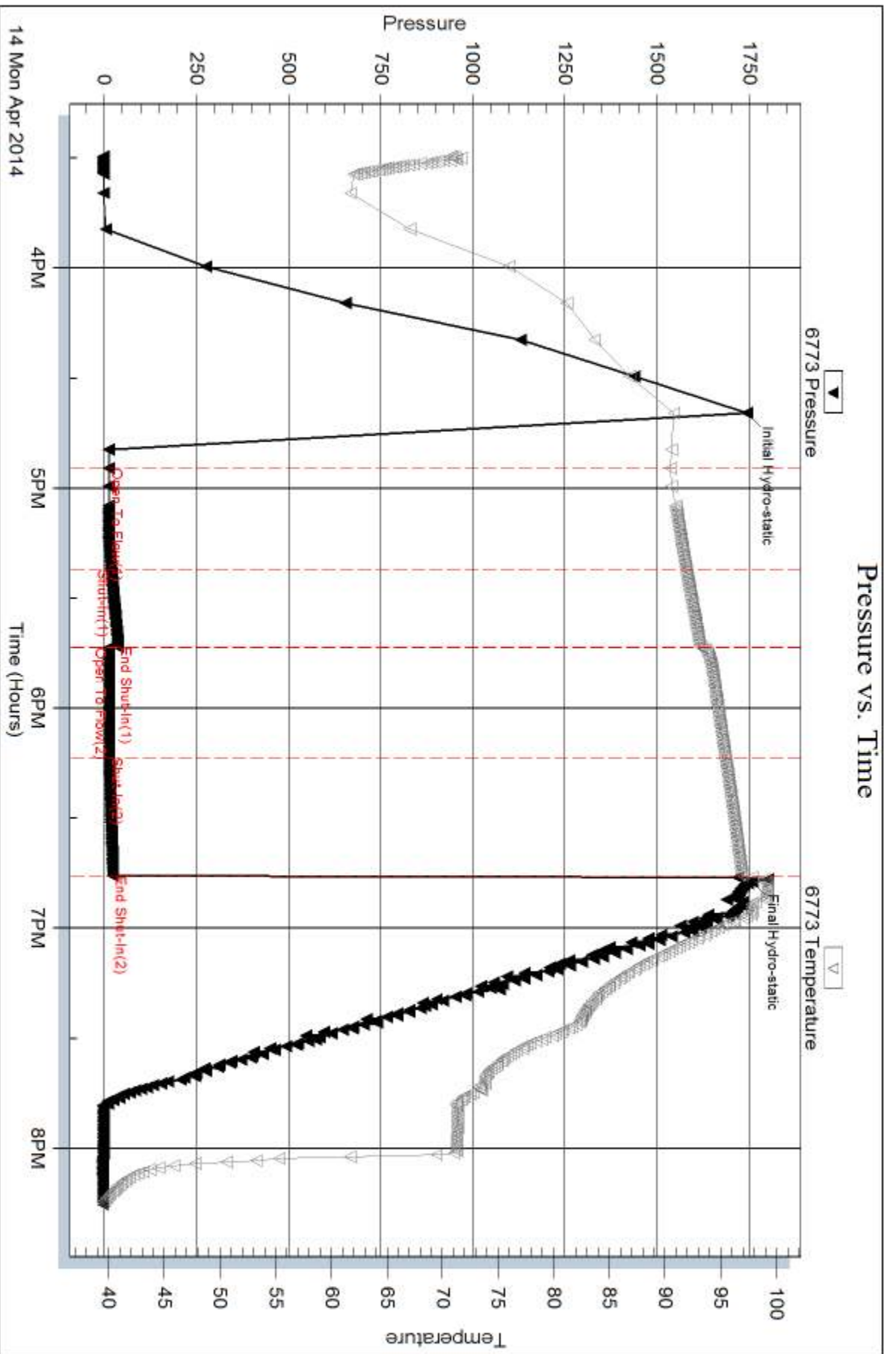
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	9500 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.17 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 9500.00 ppm			
Filter Cake: 0.20 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig Mud 100%m	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



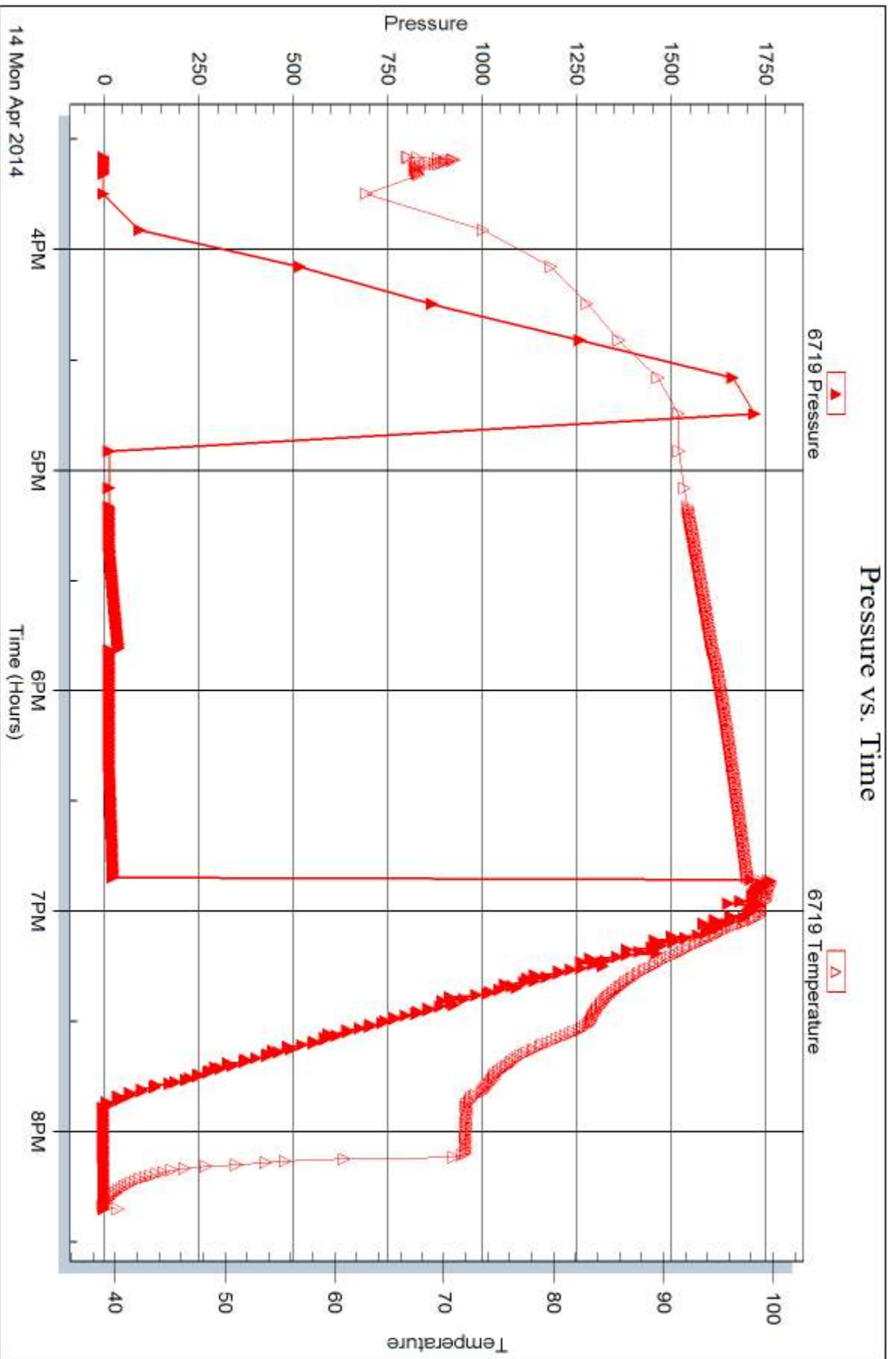


Serial #: 6719

Outside Charter Energy, Inc.

Staub #1

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc.**

PO Box 252  
Great Bend, KS 67530

ATTN: Kurt Talbott

### **Staub #1**

#### **27-22s-14w Stafford,KS**

Start Date: 2014.04.15 @ 06:11:27

End Date: 2014.04.15 @ 11:44:12

Job Ticket #: 52006                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.04.19 @ 11:49:03



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Charter Energy, Inc.  
 PO Box 252  
 Great Bend, KS 67530  
 ATTN: Kurt Talbott

**27-22s-14w Stafford, KS**

**Staub #1**

Job Ticket: 52006

**DST#: 3**

Test Start: 2014.04.15 @ 06:11:27

## GENERAL INFORMATION:

Formation: **LKC "J-L"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:11:27  
 Time Test Ended: 11:44:12  
 Interval: **3650.00 ft (KB) To 3720.00 ft (KB) (TVD)**  
 Total Depth: 3720.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: #53  
 Reference Elevations: 1947.00 ft (KB)  
 1940.00 ft (CF)  
 KB to GR/CF: 7.00 ft

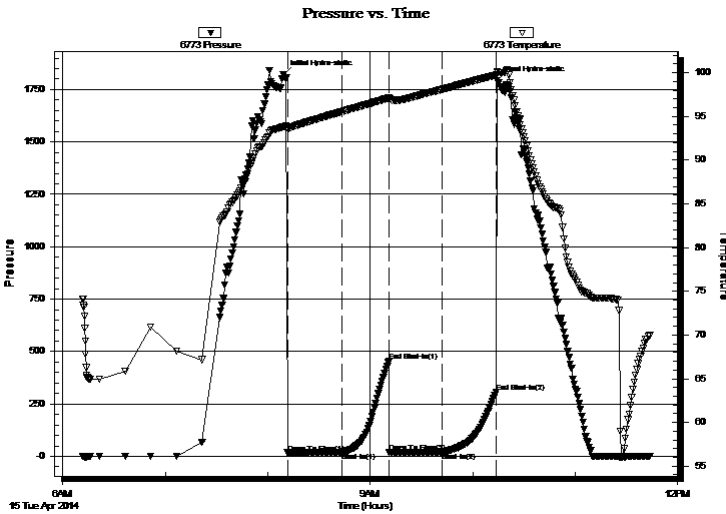
## Serial #: 6773

**Outside**

Press@RunDepth: 21.21 psig @ 3651.00 ft (KB)  
 Start Date: 2014.04.15 End Date: 2014.04.15  
 Start Time: 06:11:32 End Time: 11:44:11  
 Capacity: 8000.00 psig  
 Last Calib.: 2014.04.15  
 Time On Btm: 2014.04.15 @ 08:09:12  
 Time Off Btm: 2014.04.15 @ 10:14:27

TEST COMMENT: IF: Weak blow . Surf., - 2".  
 IS: No blow .  
 FF: Weak blow . Surf., - 1".  
 FS: No blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1821.54	93.81	Initial Hydro-static
3	16.33	93.59	Open To Flow (1)
35	18.44	95.55	Shut-In(1)
62	452.07	97.10	End Shut-In(1)
62	19.35	96.92	Open To Flow (2)
93	21.21	98.07	Shut-In(2)
125	307.02	99.72	End Shut-In(2)
126	1791.83	100.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Dlng mud 100% (w / trc of oil)	0.14

\* Recovery from multiple tests

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Charter Energy, Inc.  
PO Box 252  
Great Bend, KS 67530  
ATTN: Kurt Talbott

**27-22s-14w Stafford,KS**  
**Staub #1**  
Job Ticket: 52006      **DST#: 3**  
Test Start: 2014.04.15 @ 06:11:27

**Tool Information**

Drill Pipe:	Length: 3663.00 ft	Diameter: 3.80 inches	Volume: 51.38 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	26000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 51.38 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3650.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	70.00 ft				
Tool Length:	90.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: Slight trace of oil

**Tool Description**

**Length (ft)    Serial No.    Position    Depth (ft)    Accum. Lengths**

Change Over Sub	1.00			3631.00	
Shut In Tool	5.00			3636.00	
Hydraulic tool	5.00			3641.00	
Packer	4.00			3645.00	20.00      Bottom Of Top Packer
Packer	5.00			3650.00	
Stubb	1.00			3651.00	
Recorder	0.00	6719	Outside	3651.00	
Recorder	0.00	6773	Outside	3651.00	
Perforations	6.00			3657.00	
Change Over Sub	1.00			3658.00	
Drill Pipe	32.00			3690.00	
Change Over Sub	1.00			3691.00	
Perforations	26.00			3717.00	
Bullnose	3.00			3720.00	70.00      Bottom Packers & Anchor

**Total Tool Length:    90.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy, Inc.  
PO Box 252  
Great Bend, KS 67530  
ATTN: Kurt Talbott

**27-22s-14w Stafford,KS**  
**Staub #1**  
Job Ticket: 52006      **DST#: 3**  
Test Start: 2014.04.15 @ 06:11:27

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	9500 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 9500.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Dng mud 100% (w/ trc of oil)	0.140

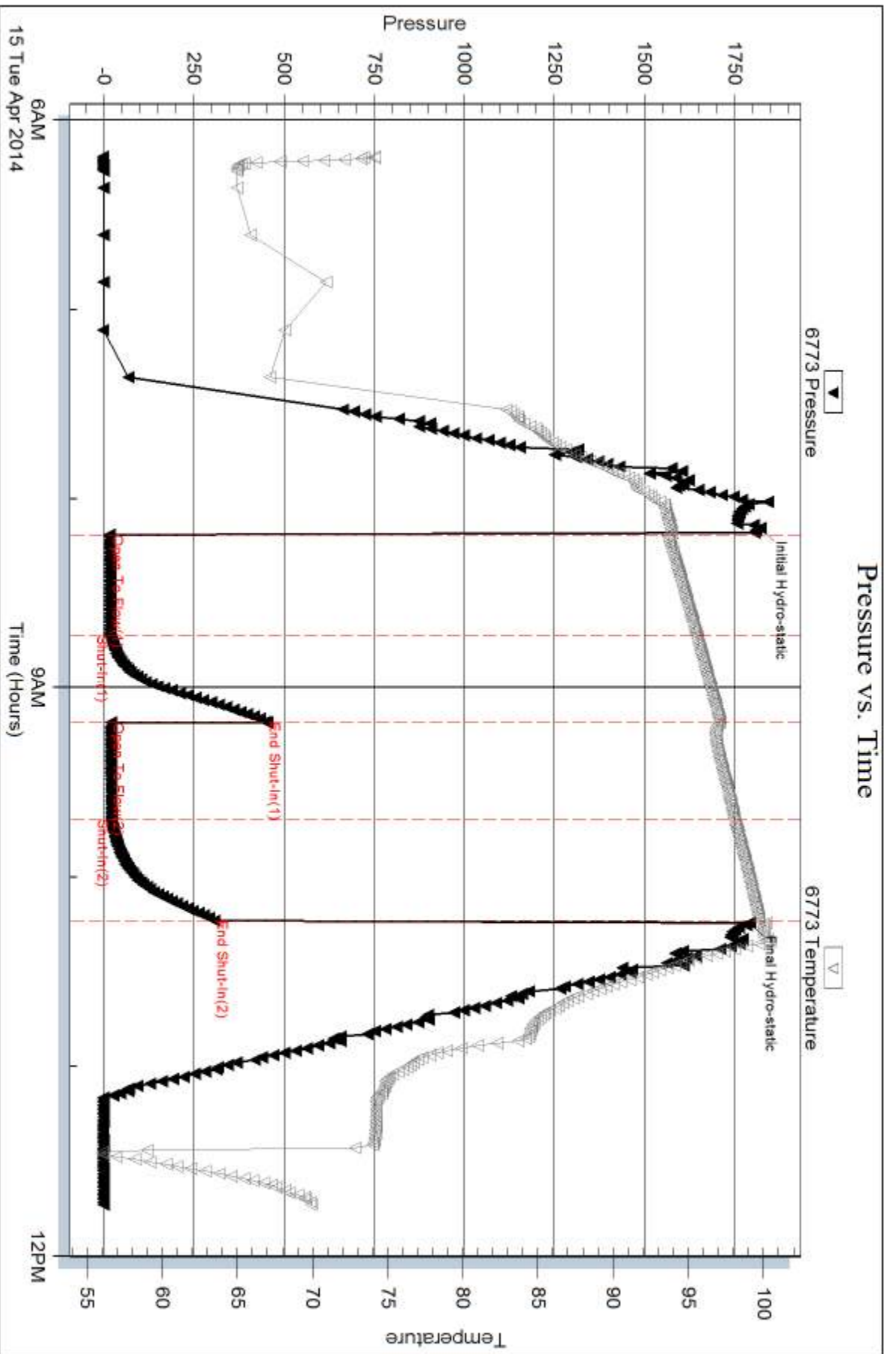
Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments: Slight trace of oil specks on top of grind out tube.



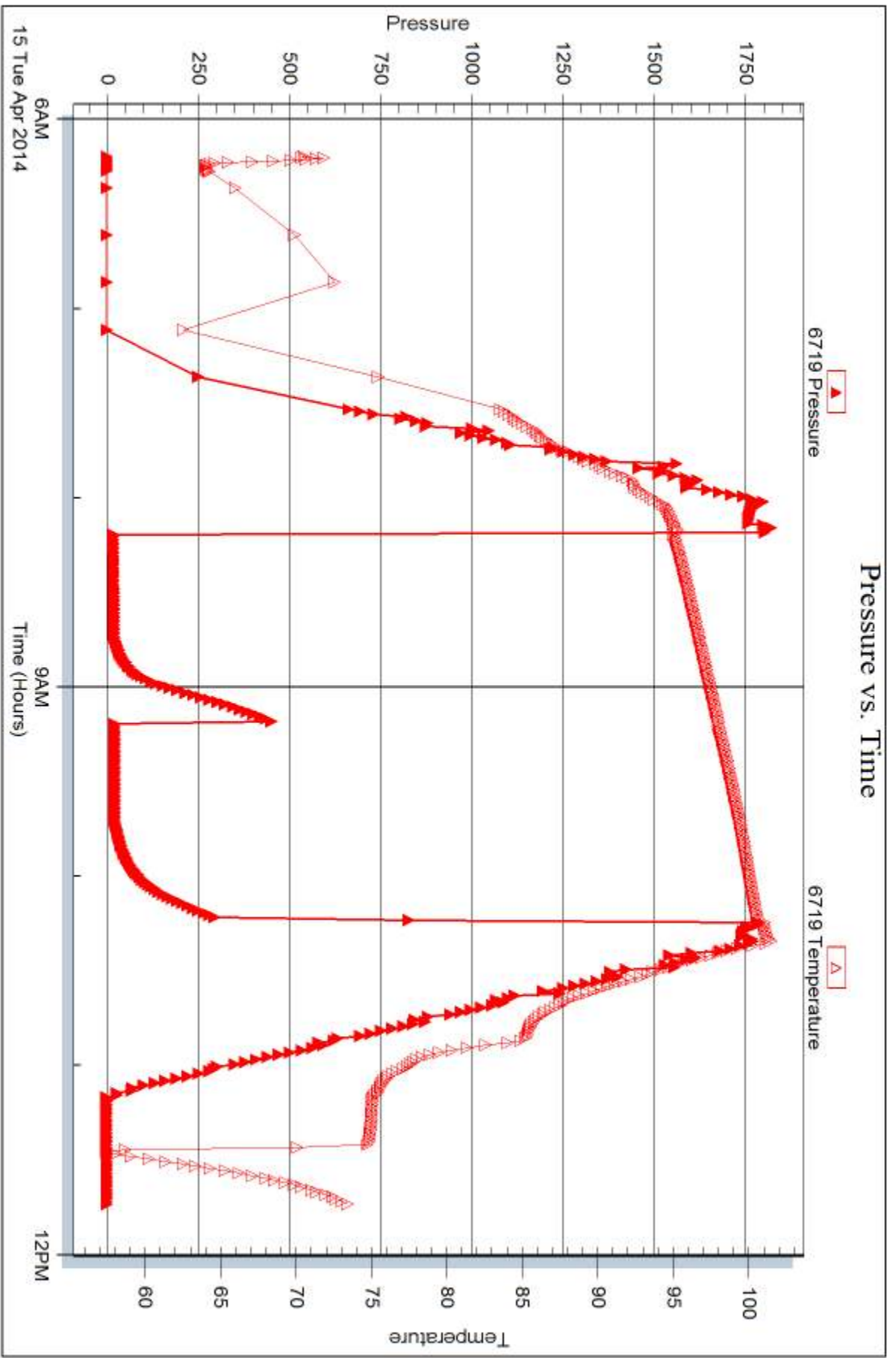


Serial #: 6719

Outside Charter Energy, Inc.

Staub #1

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 52006

Printed: 2014.04.19 @ 11:49:06



## DRILL STEM TEST REPORT

Prepared For: **Charter Energy, Inc.**

PO Box 252  
Great Bend, KS 67530

ATTN: Kurt Talbott

### **Staub #1**

#### **27-22s-14w Stafford,KS**

Start Date: 2014.04.16 @ 03:04:39

End Date: 2014.04.16 @ 10:49:54

Job Ticket #: 52007                      DST #: 4

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.04.19 @ 11:48:31



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Charter Energy, Inc.  
PO Box 252  
Great Bend, KS 67530  
ATTN: Kurt Talbott

**27-22s-14w Stafford, KS**

**Staub #1**

Job Ticket: 52007

**DST#: 4**

Test Start: 2014.04.16 @ 03:04:39

## GENERAL INFORMATION:

Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:30:09  
 Time Test Ended: 10:49:54  
 Interval: **3805.00 ft (KB) To 3887.00 ft (KB) (TVD)**  
 Total Depth: 3625.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Matt Smith  
 Unit No: #53  
 Reference Elevations: 1947.00 ft (KB)  
 1940.00 ft (CF)  
 KB to GR/CF: 7.00 ft

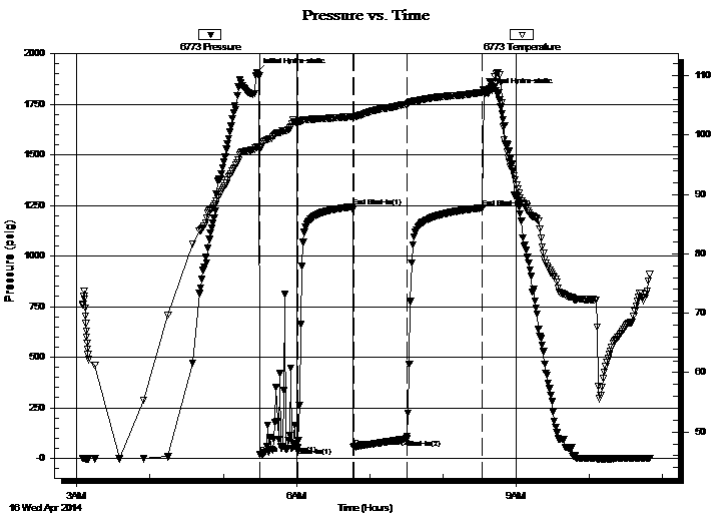
## Serial #: 6773

**Outside**

Press@RunDepth: 96.22 psig @ 3806.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.04.16 End Date: 2014.04.16 Last Calib.: 2014.04.16  
 Start Time: 03:04:44 End Time: 10:49:53 Time On Btm: 2014.04.16 @ 05:27:24  
 Time Off Btm: 2014.04.16 @ 08:34:24

TEST COMMENT: IF: Fair blow . Surf., - 8 1/2".  
 IS: No blow .  
 FF: Fair blow . Surf., - 10".  
 FS: No blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1907.80	97.97	Initial Hydro-static
3	18.83	97.78	Open To Flow (1)
34	52.44	102.06	Shut-In(1)
79	1244.19	103.11	End Shut-In(1)
80	55.25	102.83	Open To Flow (2)
123	96.22	105.17	Shut-In(2)
185	1238.52	107.18	End Shut-In(2)
187	1805.86	107.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	MCO 5%o 95%m	0.70
62.00	GOCM 5%g 5%o 90%m	0.87
62.00	GOCM 5%g 5%o 90%m	0.87
0.00	62' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Charter Energy, Inc.

**27-22s-14w Stafford,KS**

PO Box 252  
Great Bend, KS 67530

**Staub #1**

Job Ticket: 52007

**DST#: 4**

ATTN: Kurt Talbott

Test Start: 2014.04.16 @ 03:04:39

## Tool Information

Drill Pipe:	Length: 3819.00 ft	Diameter: 3.80 inches	Volume: 53.57 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 53.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3805.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Used 1 stand out of derrick to make up anchor length.

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3786.00	
Shut In Tool	5.00			3791.00	
Hydraulic tool	5.00			3796.00	
Packer	4.00			3800.00	20.00 Bottom Of Top Packer
Packer	5.00			3805.00	
Stubb	1.00			3806.00	
Recorder	0.00	6719	Outside	3806.00	
Recorder	0.00	6773	Outside	3806.00	
Change Over Sub	1.00			3807.00	
Drill Pipe	62.00			3869.00	
Change Over Sub	1.00			3870.00	
Perforations	14.00			3884.00	
Bullnose	3.00			3887.00	82.00 Bottom Packers & Anchor

**Total Tool Length: 102.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Charter Energy, Inc.  
PO Box 252  
Great Bend, KS 67530  
ATTN: Kurt Talbott

**27-22s-14w Stafford,KS**  
**Staub #1**  
Job Ticket: 52007      **DST#: 4**  
Test Start: 2014.04.16 @ 03:04:39

## Mud and Cushion Information

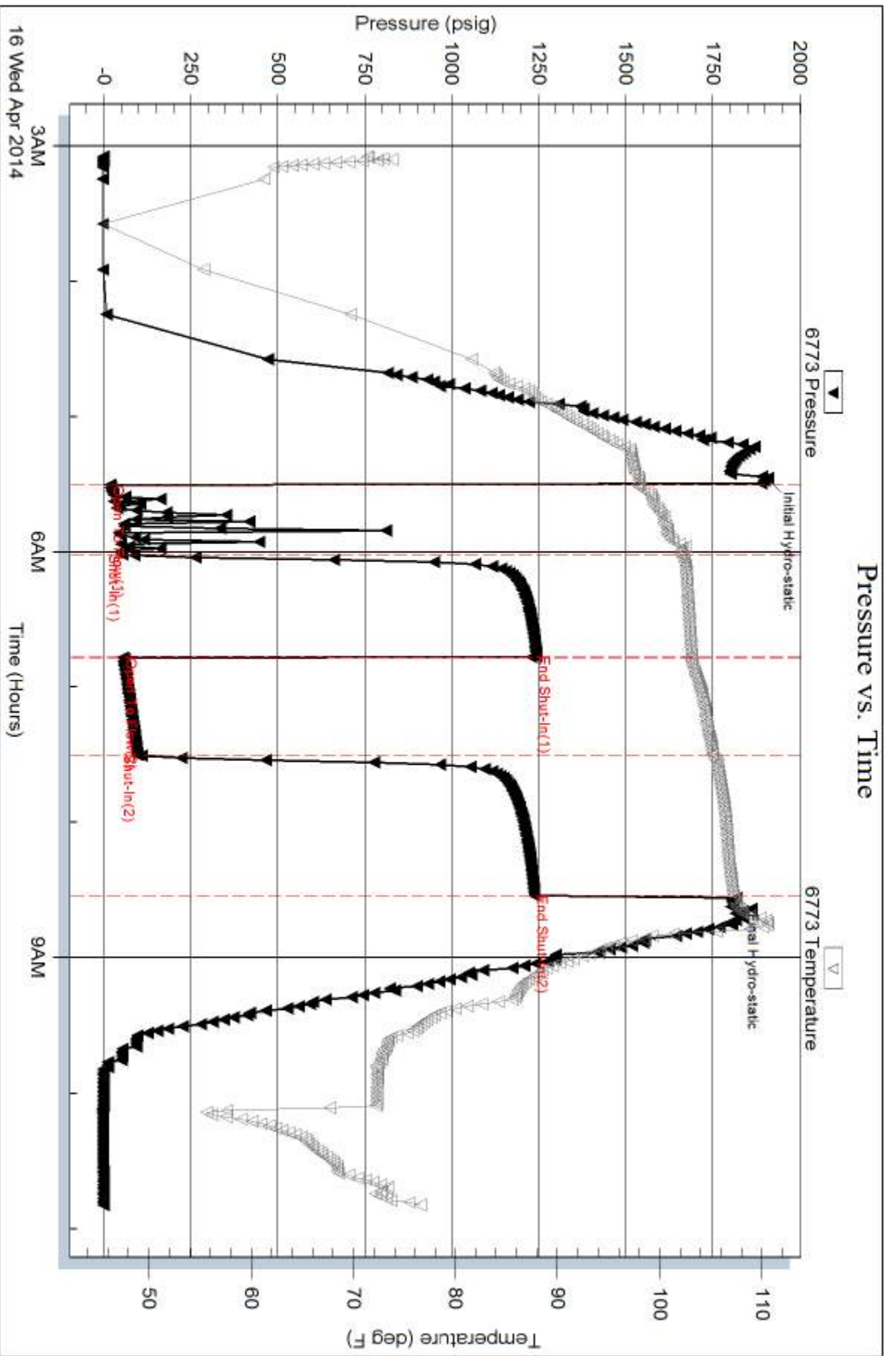
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 85.00 sec/qt	Cushion Volume: bbl		
Water Loss: 16.36 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 14500.00 ppm			
Filter Cake: 0.20 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	MCO 5%o 95%m	0.701
62.00	GOCM 5%g 5%o 90%m	0.870
62.00	GOCM 5%g 5%o 90%m	0.870
0.00	62' GIP	0.000

Total Length: 174.00 ft      Total Volume: 2.441 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



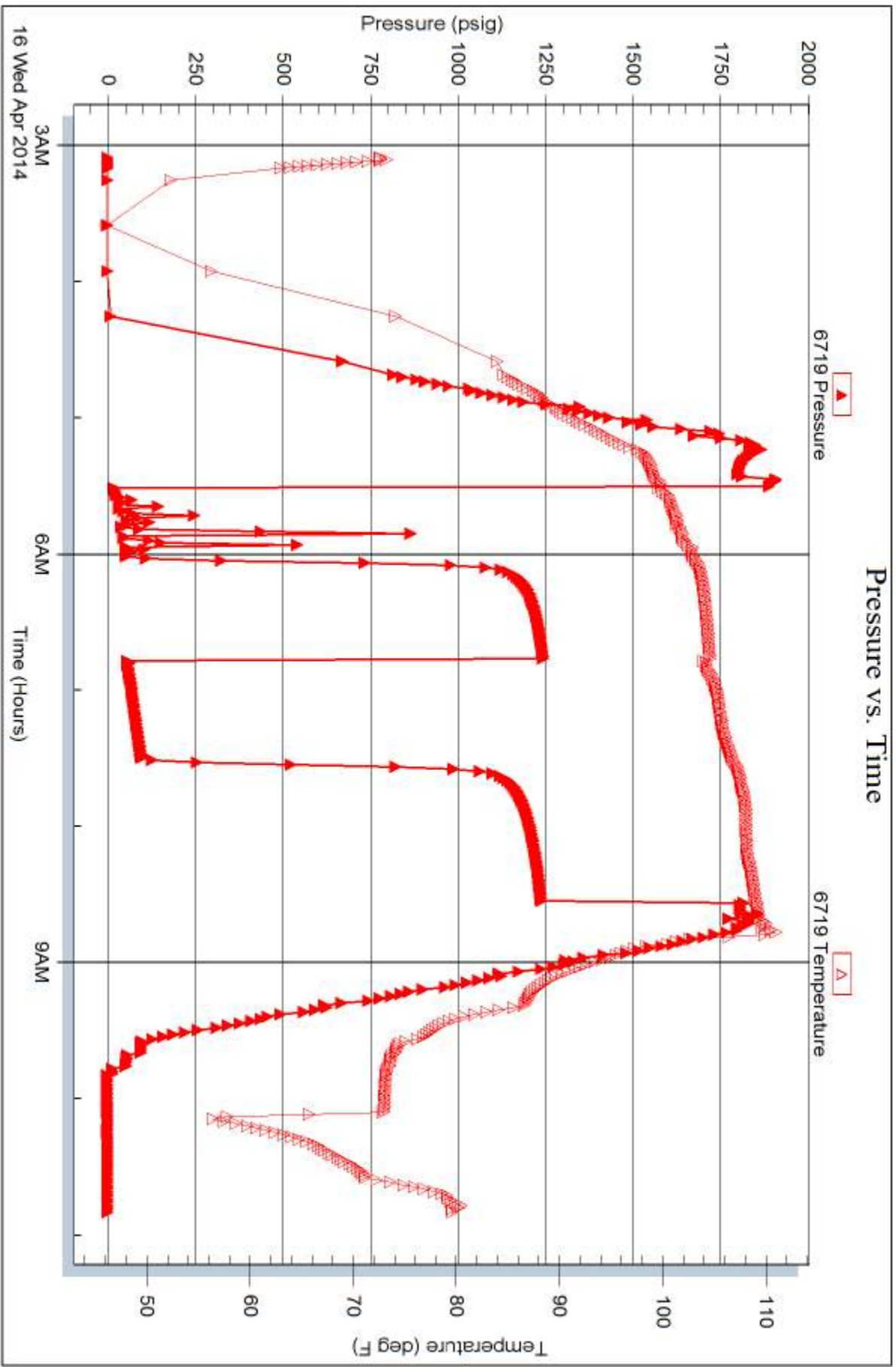


Serial #: 6719

Outside Charter Energy, Inc.

Staub #1

DST Test Number: 4



Tribble Testing, Inc

Ref. No: 52007

Printed: 2014.04.19 @ 11:48:33



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52004

4/10

Well Name & No. Staub #1 Test No. 1 Date 4/14/14  
 Company Charter Energy, Inc. Elevation 1947 KB 1940 GL  
 Address P.O. Box 252 Great Bend, KS, 67530  
 Co. Rep / Geo. Kurt Talbot Rig Royal Rig #2  
 Location: Sec. 27 Twp. 22s Rge. 14w Co. Stafford State KS

Interval Tested 3598 - 3625 Zone Tested Lansing "H" zone  
 Anchor Length 27' Drill Pipe Run 3599 Mud Wt. 9.25  
 Top Packer Depth 3593 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 3598 Wt. Pipe Run 0 WL 9.2  
 Total Depth 3625 Chlorides 7,200 ppm System LCM 1/2"

Blow Description IF! Weak blow, Surf - 1" inch.  
ISI! NO blow.  
FF! No blow.  
FSI! No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Feet of DRG MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 102° Gravity N/A API RW N.C. @ — ° F Chlorides 7,200 ppm

(A) Initial Hydrostatic <u>1787</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0037</u>
(B) First Initial Flow <u>12</u>	<input type="checkbox"/> Jars	T-Started <u>0056</u>
(C) First Final Flow <u>14</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0405</u>
(D) Initial Shut-In <u>336</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u><del>0755</del> 0629</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0755</u>
(F) Second Final Flow <u>17</u>	<input checked="" type="checkbox"/> Mileage <u>(78)</u> <u>120.90</u>	Comments
(G) Final Shut-In <u>265</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1761</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby	Total <u>1270.90</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1270.90</u>	

Approved By \_\_\_\_\_ Our Representative Matthew Smith  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52005

4/10

Well Name & No. Staub #1 Test No. 2 Date 4/14/14  
 Company Charter Energy, Inc. Elevation 1947 KB 1940 GL  
 Address P.O. Box 252 Great Bend, KS, 67530  
 Co. Rep / Geo. Kurt Talbot Rig Royal Rig #2  
 Location: Sec. 27 Twp. 22s Rge. 14w Co. Stafford State KS,

Interval Tested 3630 - 3645 Zone Tested Lansing "I"  
 Anchor Length 15' Drill Pipe Run 3632 Mud Wt. 9.4  
 Top Packer Depth 3625 Drill Collars Run 0 Vis 65  
 Bottom Packer Depth 3630 Wt. Pipe Run 0 WL 9.2  
 Total Depth 3645 Chlorides 9,500 ppm System LCM 1/2"

Blow Description IF: Weak blow, Surf., - 1 1/2"  
ISI: Weak blow, Surface only blow back  
FF: Weak blow, Surf., - 3/4 - 1"  
FSI: NO blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Drilg mud</u>				<u>100%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 97° Gravity N/A. API RW N.C. @ — °F Chlorides 9,500 ppm

(A) Initial Hydrostatic <u>1743</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1525</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars	T-Started <u>1529</u>
(C) First Final Flow <u>20</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1654</u>
(D) Initial Shut-In <u>38</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1845</u>
(E) Second Initial Flow <u>14</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2015</u>
(F) Second Final Flow <u>14</u>	<input checked="" type="checkbox"/> Mileage <u>(78)</u> <u>120.90</u>	Comments
(G) Final Shut-In <u>25</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1757</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1270.90</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't

Sub Total 1270.90

Approved By \_\_\_\_\_ Our Representative [Signature]

TriLOBITE TESTING Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52006

Well Name & No. Staub #1 Test No. 3 Date 4/15/14  
 Company Charter Energy, Inc. Elevation 1947 KB 1940 GL  
 Address P.O. Box 252 Great Bend, Ks. 67530  
 Co. Rep / Geo. Kurt Talbot Rig Royal Rig #2  
 Location: Sec. 27 Twp. 22s Rge. 14w Co. STAFFORD State KS.

Interval Tested 3650 - 3720 Zone Tested Lansing "J, K, + L"  
 Anchor Length 70' Drill Pipe Run 3,663 Mud Wt. 9.4  
 Top Packer Depth 3645 Drill Collars Run 0 Vis 65  
 Bottom Packer Depth 3650 Wt. Pipe Run 0 WL 9.2  
 Total Depth 3720 Chlorides 9,500 ppm System LCM 1/2"

Blow Description IF: Weak blow. Surf., - 2"  
ISI: No blow.  
FF: Weak blow. Surf., - 1"  
FSS: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Drig mud (w/slight trace of oil)</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 106° Gravity N.A. API RW N.C. @ — ° F Chlorides 9,500 ppm

(A) Initial Hydrostatic <u>1822</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0605</u>
(B) First Initial Flow <u>16</u>	<input type="checkbox"/> Jars	T-Started <u>0611</u>
(C) First Final Flow <u>18</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0811</u>
(D) Initial Shut-In <u>452</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1014</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1144</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>78</u> <u>120.90</u>	Comments
(G) Final Shut-In <u>307</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1792</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total 1270.90

MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Matthew A. Smith

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52007

Well Name & No. Staub #1 Test No. 4 Date 4/16/14  
 Company Charter Energy, Inc. Elevation 1947 KB 1940 GL  
 Address P.O. Box 252 GREAT BEND, KS. 67530  
 Co. Rep / Geo. Kurt Talkot Rig Royal Rig #2  
 Location: Sec. 27 Twp. 22s Rge. 14w Co. STAFFORD State KS.

Interval Tested 3805 - 3887 Zone Tested Simpson Sand  
 Anchor Length 82' Drill Pipe Run 3,819 Mud Wt. 9.35  
 Top Packer Depth 3800 Drill Collars Run 0 Vis 85  
 Bottom Packer Depth 3805 Wt. Pipe Run 0 WL 16.4  
 Total Depth 3887 Chlorides 14,500 ppm System LCM 1/2"

Blow Description IF: Fair blow. Surf., - 8 1/2".  
ISI: NO blow.  
FF: Fair blow. Surf., - 10".  
FSI: NO blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>G.I.P</u>	<u>100</u>			
<u>50</u>	<u>MCO</u>		<u>5</u>		<u>95</u>
<u>62</u>	<u>GDCM</u>	<u>5</u>	<u>5</u>		<u>90</u>
<u>62</u>	<u>GOCM</u>	<u>5</u>	<u>5</u>		<u>90</u>

Rec Total 174' BHT 107° Gravity N.A. API RW N.C. @ — ° F Chlorides 14,500 ppm

(A) Initial Hydrostatic 1908  Test 1150 T-On Location 0253  
 (B) First Initial Flow 1908  Jars \_\_\_\_\_ T-Started 0304  
 (C) First Final Flow 52  Safety Joint \_\_\_\_\_ T-Open 0530  
 (D) Initial Shut-In 1244  Circ Sub \_\_\_\_\_ T-Pulled 0832  
 (E) Second Initial Flow 55  Hourly Standby \_\_\_\_\_ T-Out 1650  
 (F) Second Final Flow 96  Mileage 78.9 120.90 Comments \_\_\_\_\_  
 (G) Final Shut-In 1239  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1806  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1270.90  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1270.90

Approved By \_\_\_\_\_ Our Representative Matthew J. Smith

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